

Jordan University of Science and Technology Faculty of Veterinary Medicine

Veterinary Medicine And Surgery Department

First Semester 2021-2022

Course Catalog

2 Credit Hours. This is a continuation of general animal physiology I course in which the function of the Renal system, respiratory system, endocrinology and animal reproduction will be described. As in many learning circumstances a good memory is helpful but it will not substitute for a full, knowledgeable, logical thinking process that is required to master the discipline of physiology

Text Book						
Title	Textbook of Veterinary Physiology					
Author(s)	James G. Cunningham and Bradley G. Klein					
Edition	4th Edition					
Short Name	Ref-1					
Other Information	non					

Course References

Short name	Book name	Author(s)	Edition	Other Information
ref-2	Clinical Anatomy and Physiology	Thomas Colville and Joanna and Bassert	2nd Edition	non

Instructor				
Name	Prof. Falah Shidaifat			
Office Location	G1-L3			
Office Hours				
Email	falah@just.edu.jo			

Class Schedule & Room

Section 1:

Lecture Time: Mon, Wed: 18:00 - 19:00

منصة الكترونية :Room

Prerequisites					
Line Number Course Name Prerequisite					
661220	VM122 Animal Physiology 1	Prerequisite / Study			

	Tentative List of Topics Covered					
Weeks	Topic	References				
Week 1	Glomerular filtration and its regulation	From Ref-1				
Week 2	Tubular processing of glomerular filtrate	From Ref-1				
Week 3	Regulation of water and electrolyte balance	From Ref-1				
Week 4	Acid-base balance	From Ref-1				
Week 5	Lung ventilation	From Ref-1				
Week 6	Pulmonary blood flow and concepts of ventilation perfusion ratio	From Ref-1				
Week 7	Gas exchange and gas transport	From Ref-1				
Week 8	Control of ventilation	From Ref-1				
Week 9	Overview of general principles of endocrine system and hormones	From Ref-1				
Week 10	Hypothalamus and pituitary gland	From Ref-1				
Week 11	Hormones of the adrenal gland	From Ref-1				
Week 12	Thyroid and parathyroid gland	From Ref-1				
Week 13	Hormones of the pancreas	From Ref-1				
Week 14	Hormonal regulation of reproductive system Embryology and Male reproductive patterns	From Ref-1				
Week 15	Female Reproductive cycles and sexual behavior	From Ref-1				
Week 16	Pregnancy, parturition and lactation	From Ref-1				

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To know and understand the function of renal system in urine formation and its function in the regulation of water and electrolyte balance and blood pressure and acid-base balance	25%	

To under the respiratory system physiology including the physiological processes of inspiration, expiration, pulmonary circulation, gas diffusion and transportation and regulatory mechanisms of ventilation.	25%	
To understand the Endocrine system of animals and the physiological role of all hormones of the endocrine system	25%	
To know the male and female reproductive pattern and to understand the hormonal regulation of those patterns	25%	

Relationship to Program Student Outcomes (Out of 100%)									
1	2	3	4	5	6	7	8	9	10

Policy				
Teaching and Learning strategies	A combination of online power point lectures and discussion through Microsoft teams which will be supplemented with audiovisual materials and reading materials			

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